

JMPS Program Overview



**Mission Planning SEIC
Industry Day**

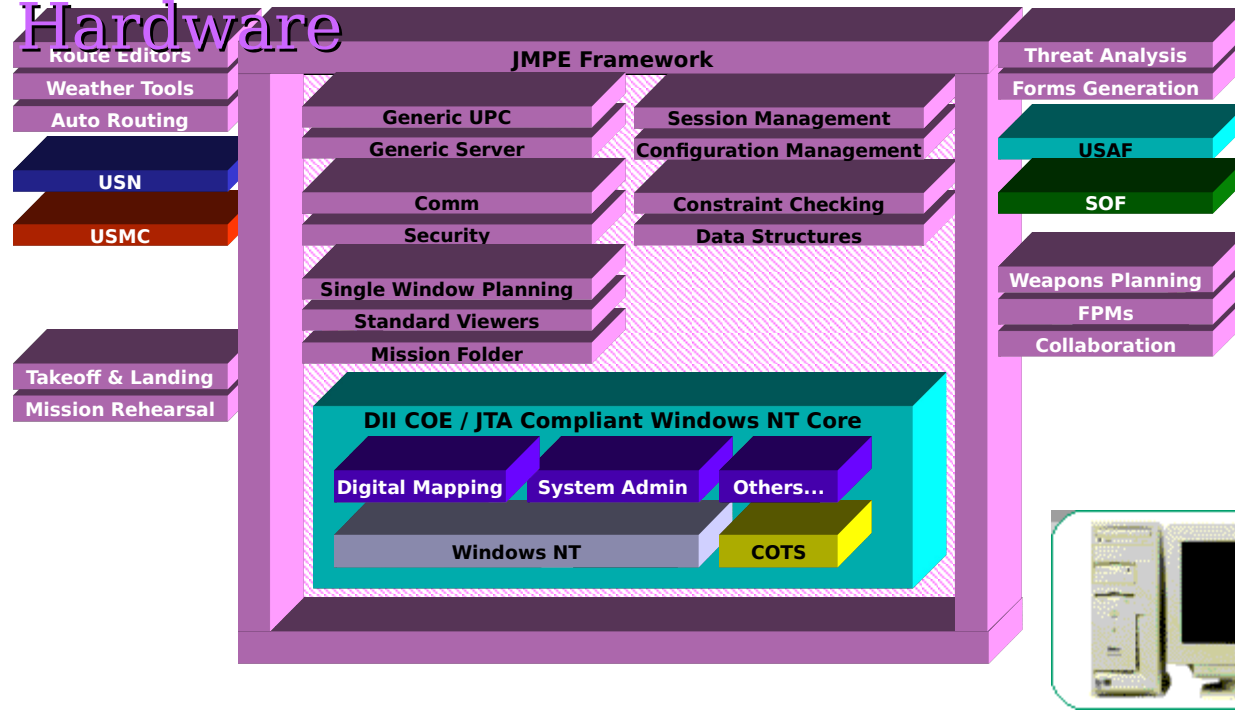
16 Dec 02

**CDR Ed Bellini,
USN**



Joint Mission Planning System Architecture

JMPE Framework + Service Unique Components + Hardware

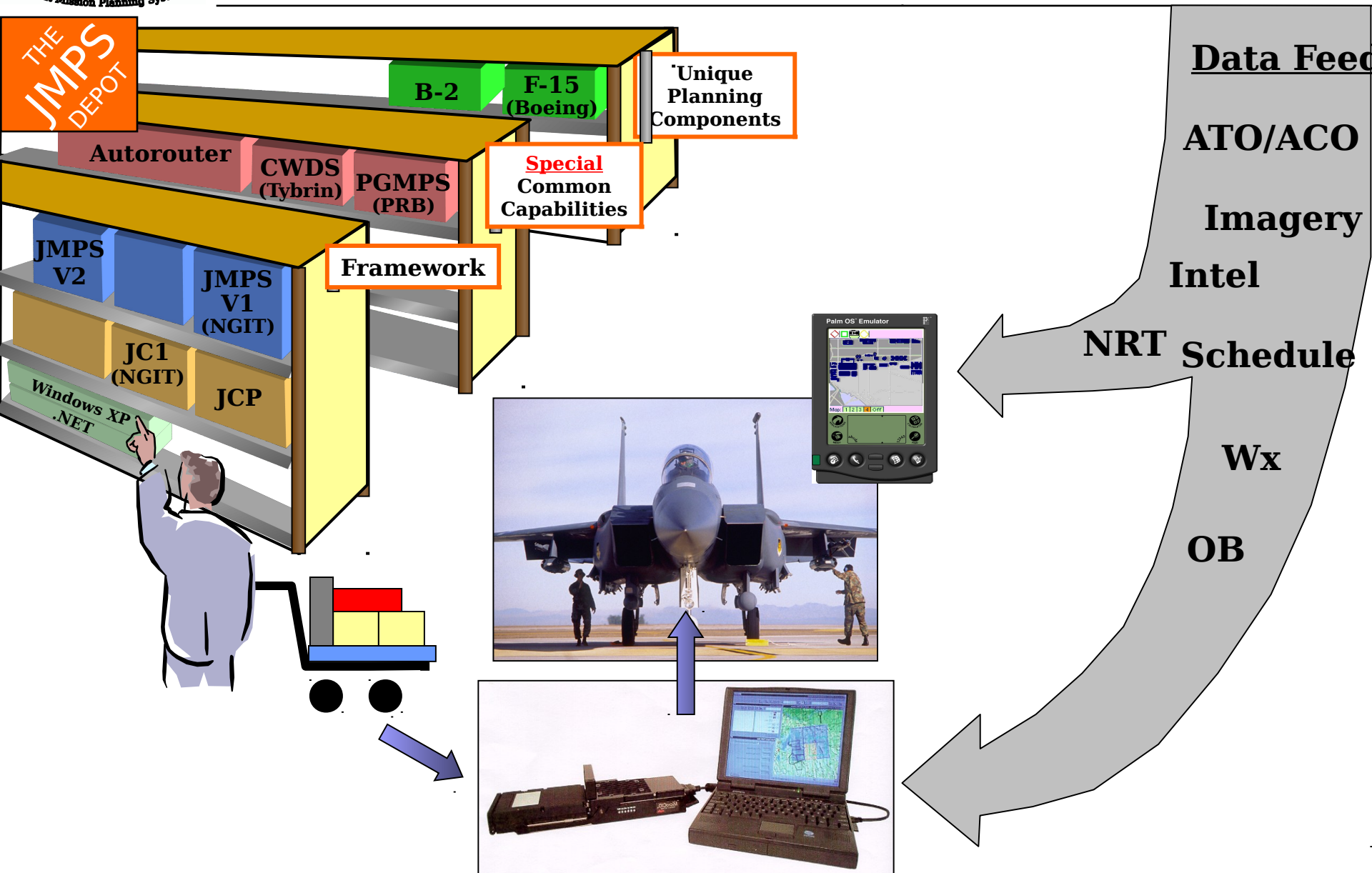


JMPS Builds Multi-User Common Components for Mission Planning on top of Common DII COE Services.

Platforms/Weapons "Add-On" their own UNIQUE Tools



Joint Mission Planning Systems





A Mission Planning Environment From a Platform Perspective...



F/A-18 JMPS MPE

UPCs
Common
Capabilities
Framework

PMA-201

PMA-233
Hill AFB

PMA-233
NGIT

F/A-18 UPC
SLAM
HARM
Strike Plan Folders
TAMMAC
ARC-210
NAWC
JSOW/JDAM
GPS Prediction
PET
GPS Crypto Key
GCCS-M Ext.
JTIDS Init
Route Linking
CV Server
PTW
GPS Almanac
Combat 1
Version 1

PMA-265
Boeing

PMA-258
Boeing

PMA-242

PMA-281

PMA-209
Raytheon

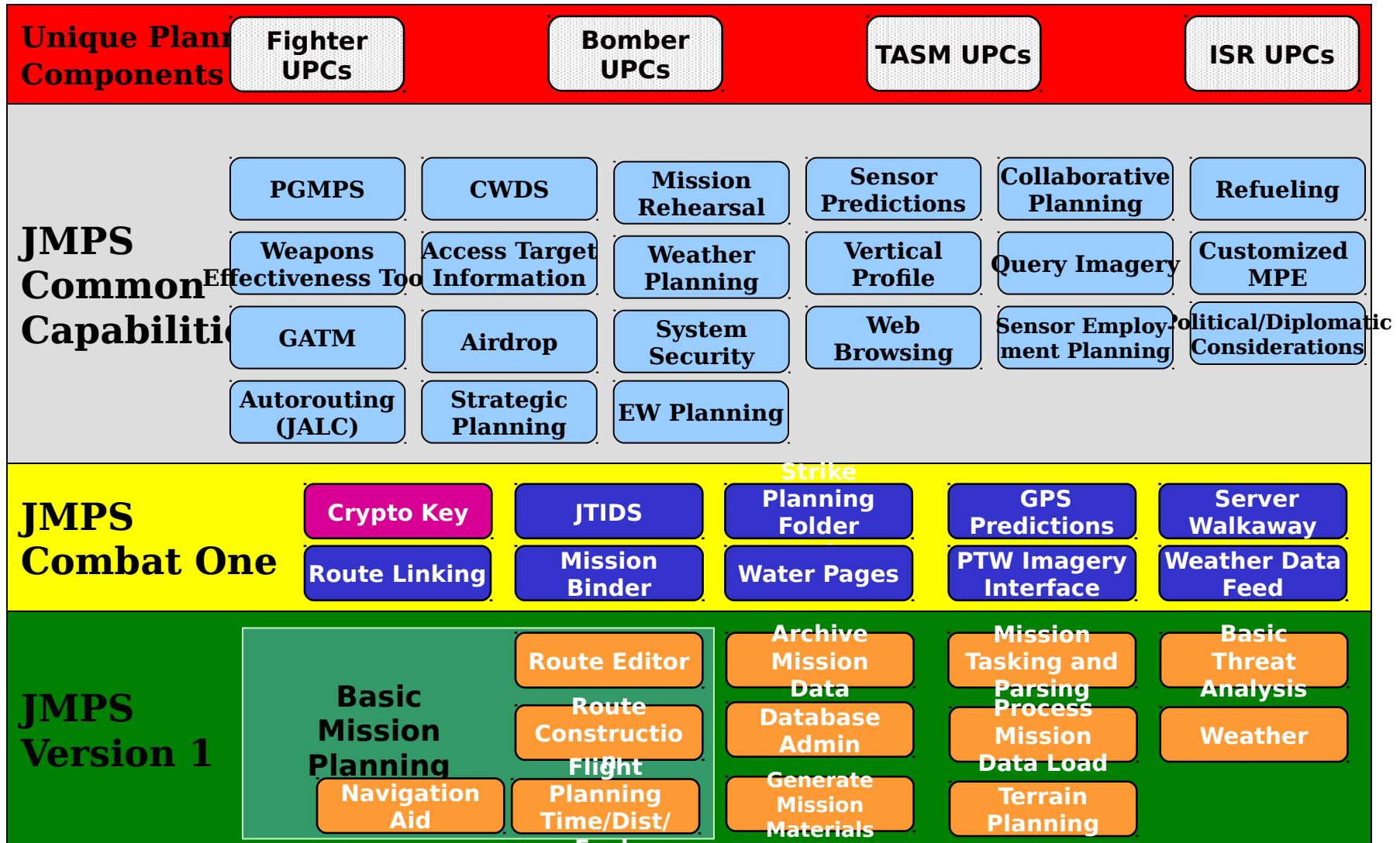
PMA-233
DCS, PRB

PMA-233
Tybrin

Sharing Common Software



JMPS Overview





JMPS Benefits

- **Interoperability/Collaboration** - Gulf & Kosovo CAOCs #1 Need
- **Reduced mission plan time** - Concurrent aircraft/weapon planning
 - System usable for Real Time Targeting, Mobile Target Planning
- **Improved Precision Engagement** - Integrates new smart weapons
- **EAF Mobility** - Reduced footprint - Reduced Training Time/Costs
- **Open Architecture** - Future capabilities integrated by developers
- **Reduced life cycle costs** - Single platform - Multi-service funding
- **COE** and **GATM** compliance
- ORDs Call for a **PC-Based** Planner

Force Level Planning



Strike Planning

Coordinated Aircraft
& Weapon Planning



Support Planning

Assault Planning



JMPS will be the Single Mission Planning Solution for Warfighting



Commonality

Mission Planning Environment (MPE)

Collaborative Planning
Mission Rehearsal
PGM Planner
GATM
Auto Router
Low Observable
ARC210 / JTIDs
Moving Map
Aerial Refueling
Combat 1
Version 1

26 Common Capabilities



F-16 JMPS MPE

E-16 IIPC
JASSM Autorouter
Collaborative
Mission Rehearsal
PGM Planner Ext
NIMA DOV
Combat 1
Version 1



F/A-18 JMPS MPE

E-18 IIPC
JASSM Autorouter
Collaborative
Mission Rehearsal
Planning
PGM Planner
ARC-210
GPS Prediction
Combat 1
Version 1



E-3 JMPS MPE

E-3 IIPC
Collaborative
Mission Rehearsal
Planning
GATM
Aerial Refueling
Version 1

Nominal Data **Each Aircraft Will Have Unique Configuration**

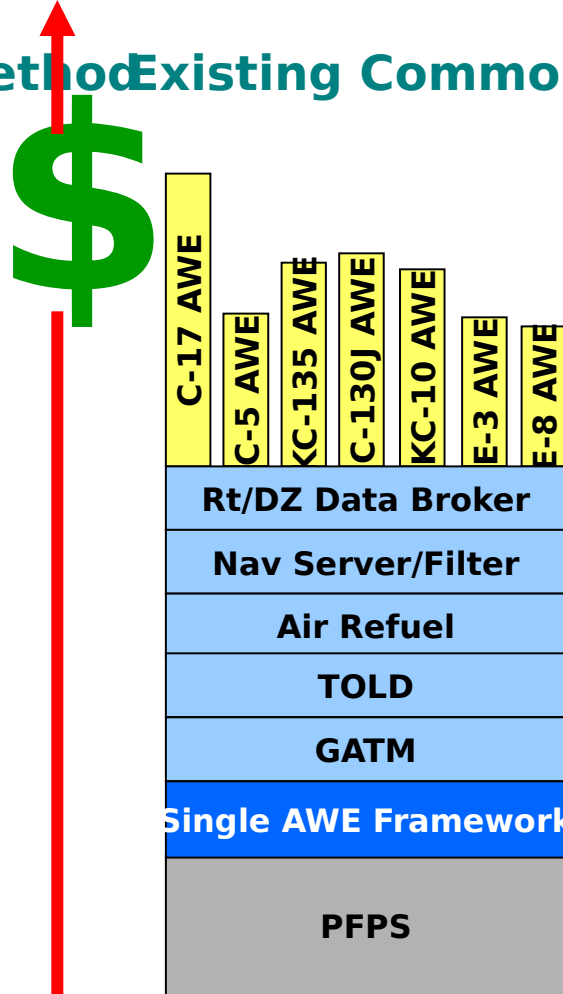


JMPS Platform Migration

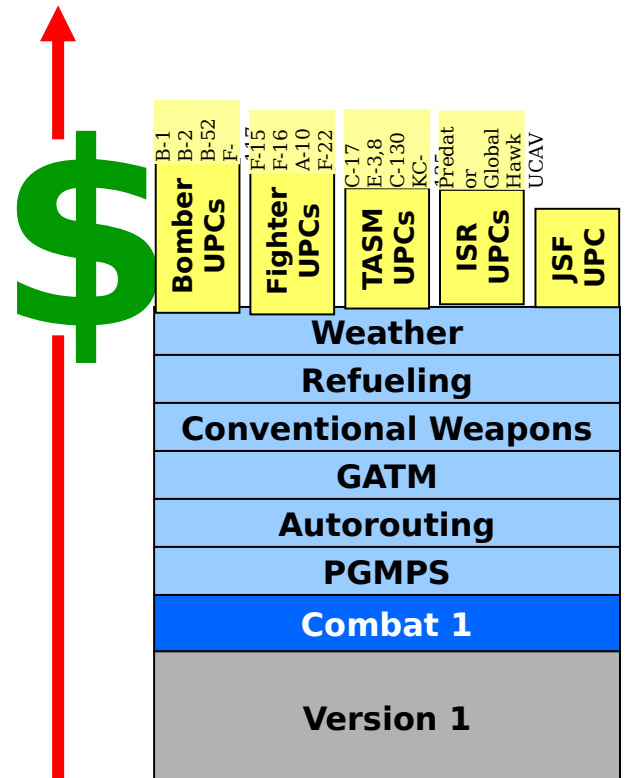
Old “Stovepiped” Method Existing Common Method New Common Method



MPS/TAMPS



TASM “Success Story” Today

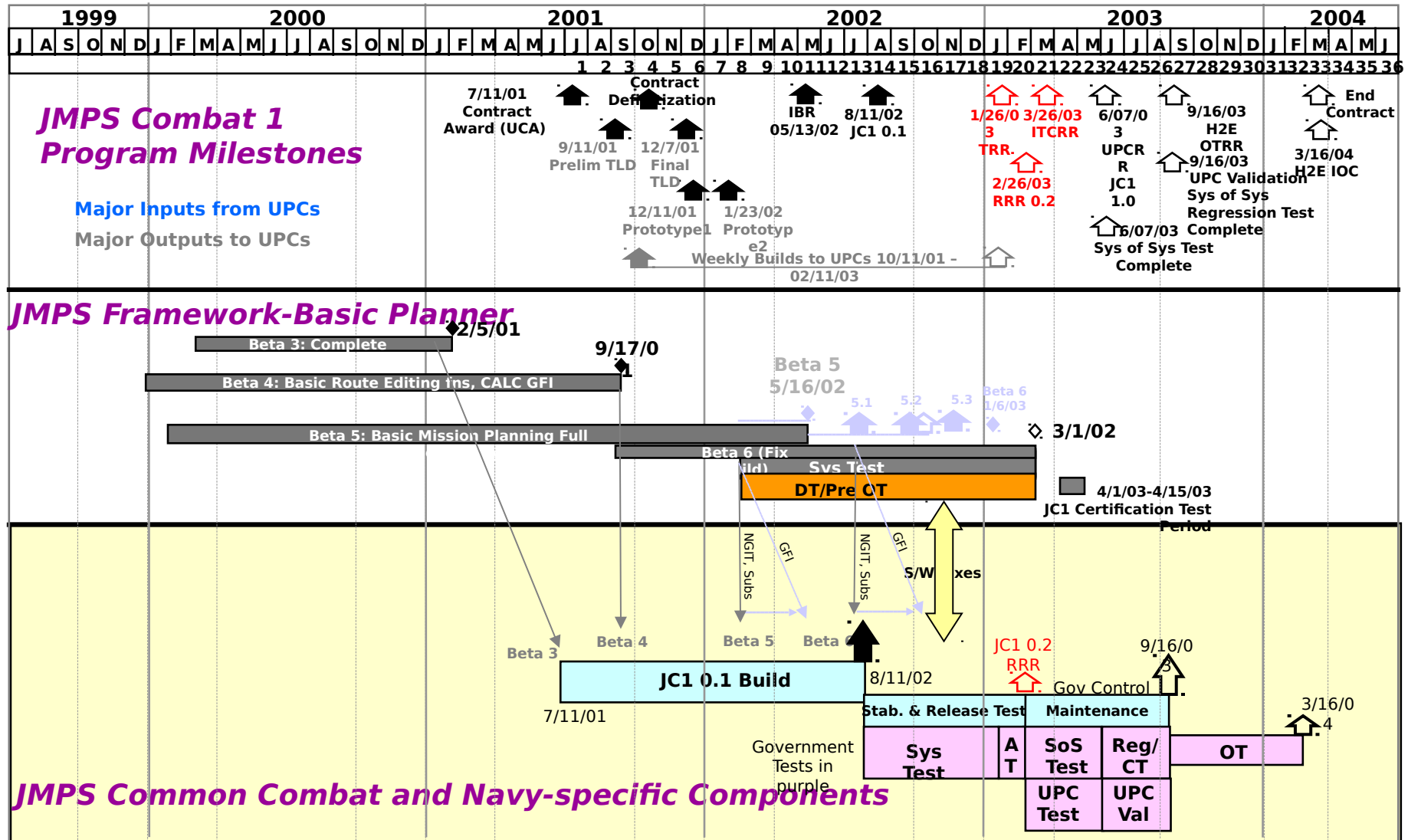


JMPS

Build Once and Share

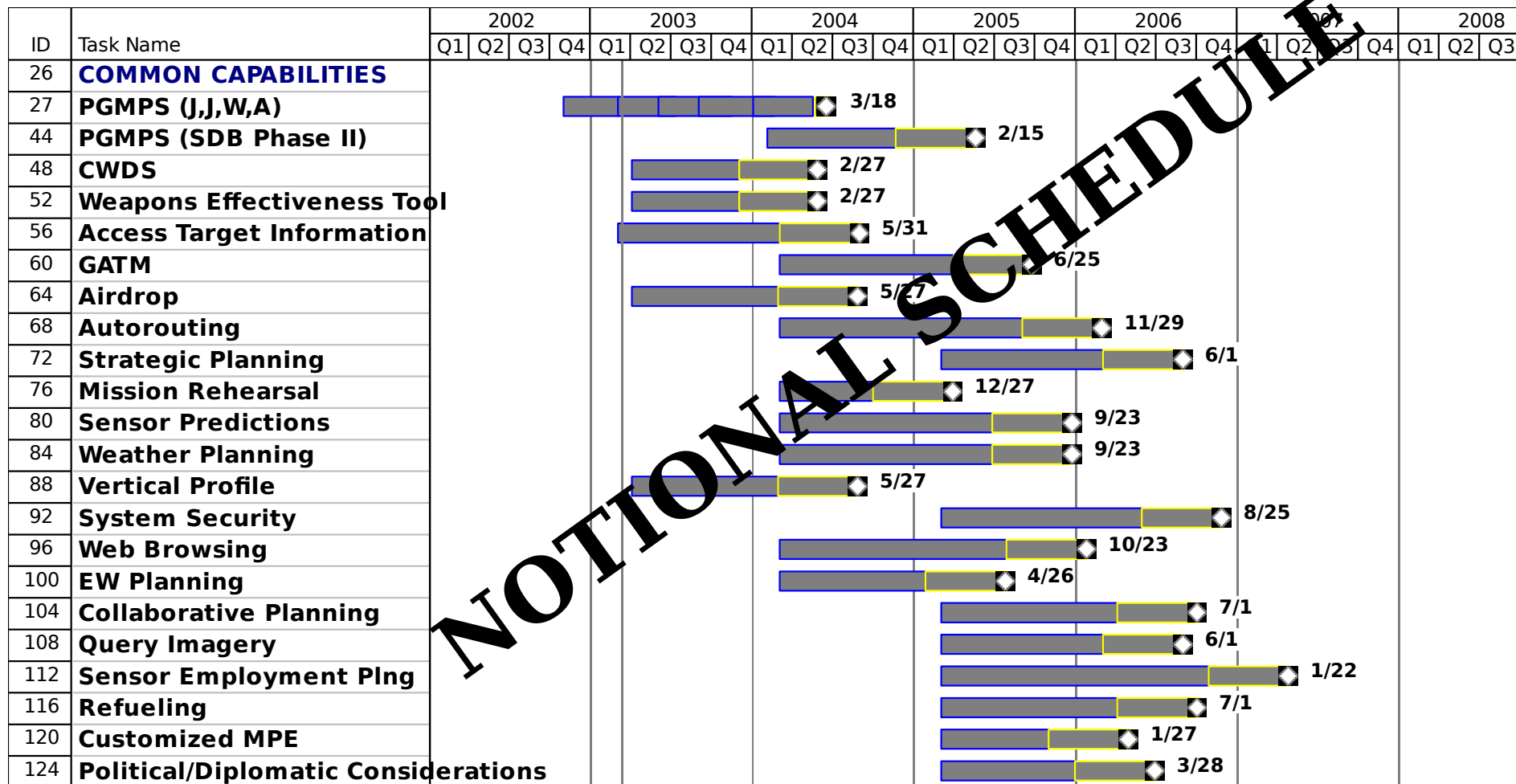


JMPS Master Schedule



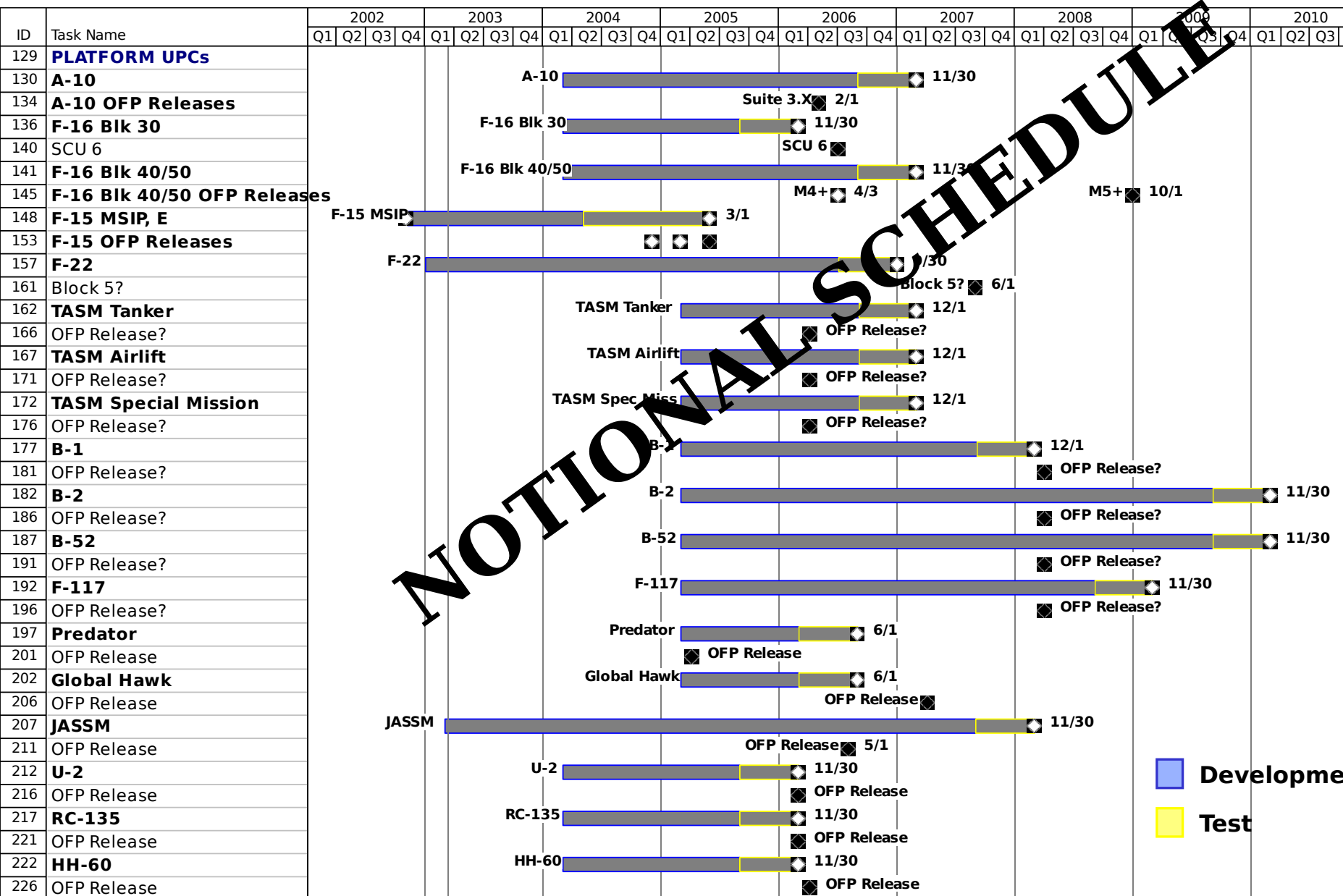


Common Capabilities Schedule



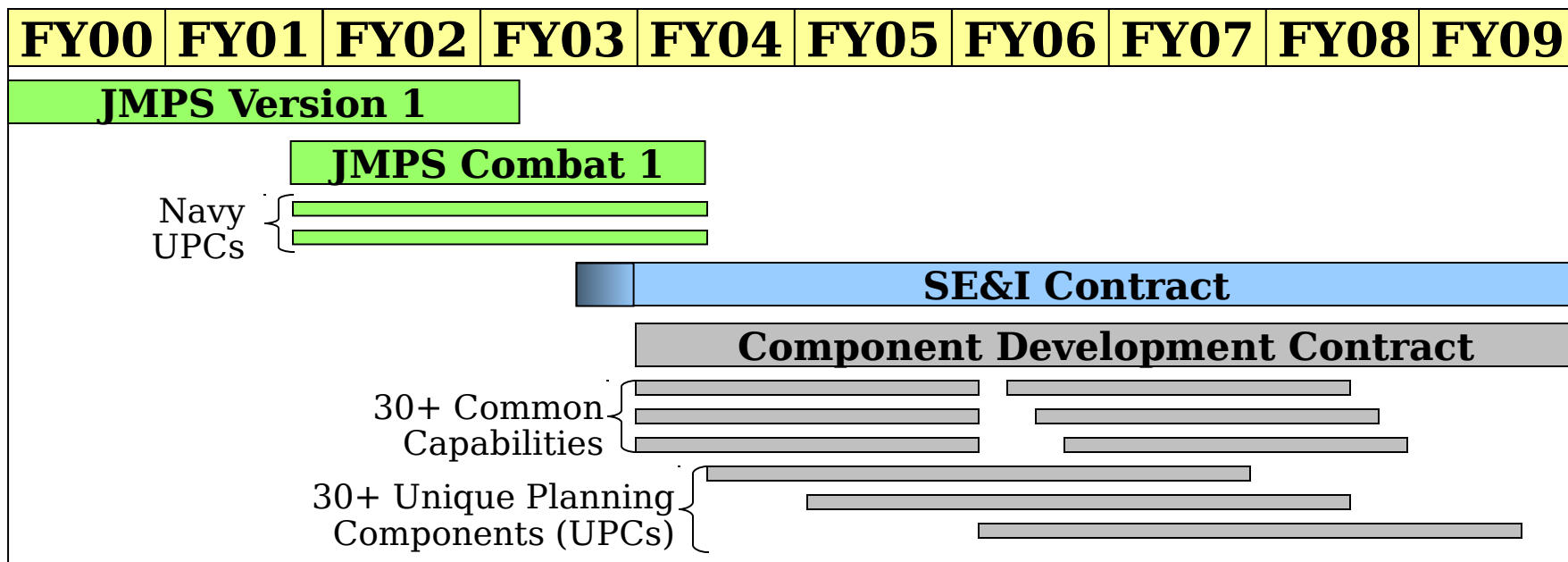
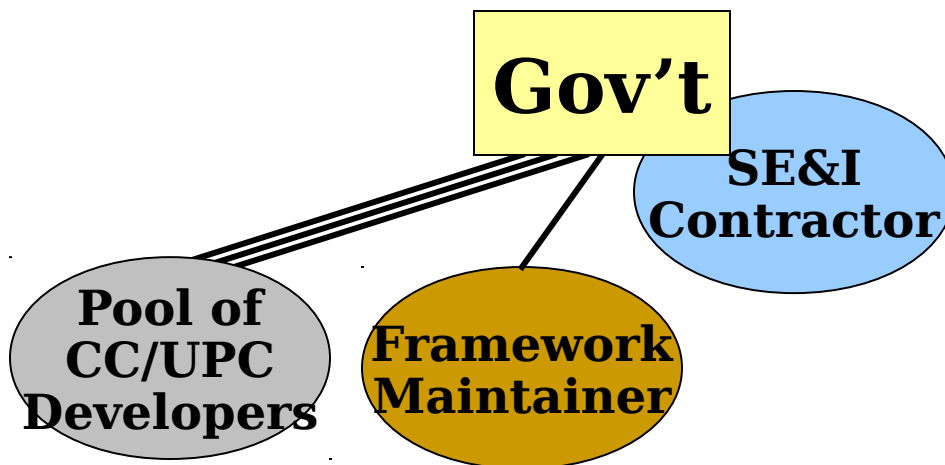


Air Force UPC Schedule





JMPS Contractual Timeline





JMPS Business Rules

- No restricted rights code - GPLR for code
- Licensing software not preferred
- Minimum SEI CMM Level 3 (or equivalent)
- Mission planning domain knowledge
- ACA with JMPS Integrator and Framework Maintainer
- Complete interface documentation (ICDs and IDDs)
- Periodic source and executable code release deliveries
- Programmer's Guide delivered
- Open design reviews (other JMPS developers may attend)
- Cost Performance (EVMS) data provided

These Rules Apply For All Future JMPS Developers



JMPS Technical Rules

- Design for extensibility
- DII COE Level 6 compliant
- Meet JMPS Security Target requirements
- Adhere to JMPS architectural standards
 - JMPS Object Model, COE USI Standards, Data Models, JMPS Interfaces
- Component design standards
 - Microsoft COM components
 - Interface Design Language (IDL) with semantics
 - Coding and Commenting standards
- Access to developer's problem database
- Comply with DoD directives
 - Use XML, Standardize Internet Protocol interfaces

These Rules Apply For All Future JMPS Developers

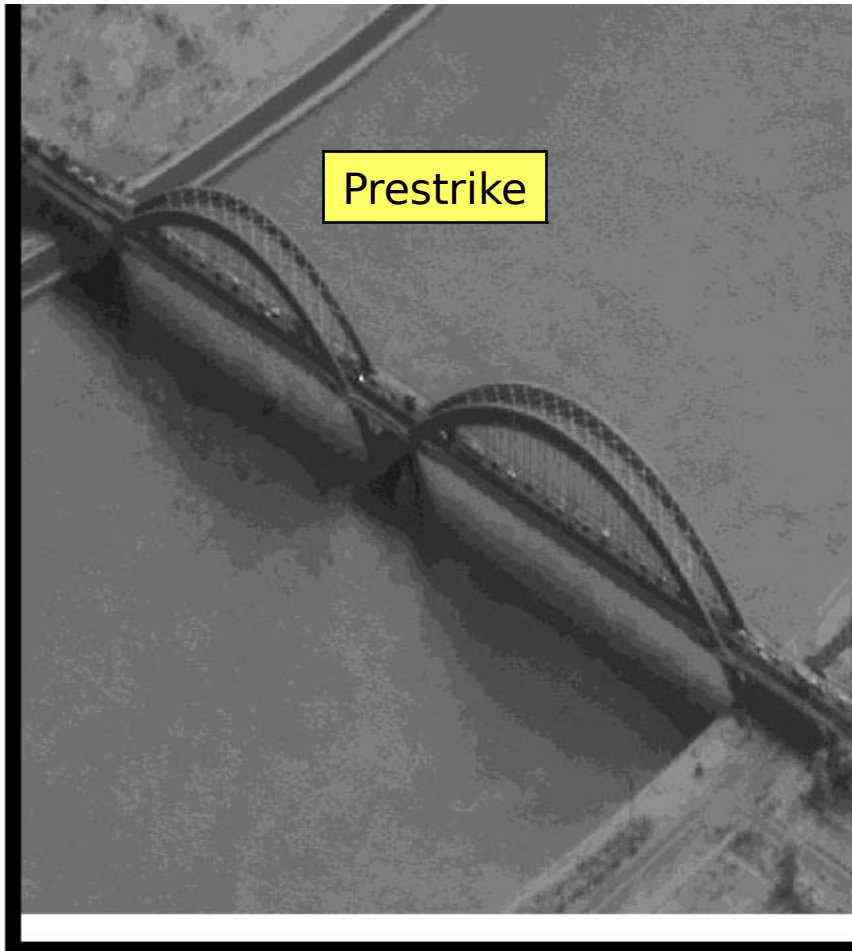


Summary

- JMPS Framework developed
- JMPS will be fielded:
 - Mar 04: Navy (F/A-18, F-14, E-2C)
 - Mar 05: Air Force (F-15)
 - 2005: Army, SOF
- Future JMPS developments in excess of \$1B
 - Framework Evolution
 - Common Capabilities
 - Platform UPCs



Thanks for your Interest in National Defense...





***Questions
?***



JMPS Points of Contact

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NavMPS Web site
- <http://mps.chinalake.navy.mil>



BACKUP SLIDES



Platform Migration

